





- © 2 rue de Vienne 68180 HORBOURG-WIHR
- **(** +33(0)3 89 20 13 80
- □ +33(0)3 89 20 13 89☑ matiere@polymix.eu
- opolymix.eu





### PREVENTING, DIAGNOSING, HEALING

# ARE THE KEY OBJECTIVES OF THE HEALTH ACTORS, HOSPITALS AND LABORATORIES

French leader in the distribution of technical polymers,
POLYMIX is more than ever positioned as an innovation finder.
For 40 years, POLYMIX has displayed a know-how
and a multi-skill in the commercialization of thermoplastic materials.

Preventing, diagnosing and healing are the key objectives of health actors, hospitals and laboratories.

**POLYMIX** supports you in your projects, with a large and diversified range as well as a recognized expertise in medical matters. Our materials meet the requirements of medical and diagnostics devices, pharmaceutical and medical packaging. We support you from the identification of materials to their homologation.

POLYMIX partners are **ISO13485** certified and offer materials in compliance with the pharmacopea regulatories: **ISO10993**, **USP6**, **EP3.1**, **USP661**, and **FDA Drug Master File**.

In addition, the inherent properties of thermoplastics offer many solutions for your projects:

- ☑ Transparency or opacity
- ☑ Physical and mechanical properties
- ☑ Hardness and flexibility
- ☑ Density
- ☑ Tribological properties
- ☑ Improved chemical resistance
- ☑ Lipid resistance
- Resistance to tearing and percability, breakability of packaging



#### STERILIZATIONS AND DESINFECTIONS

Concerned about the quality of the medical devices after their sterilization, **POLYMIX** has the expertise and offers tailored solutions according to the different processes intented to **single use and multi-use medical devices**:

- ☑ Ethylene oxide
- ☑ Irradiation : gamma, Xray, E-beam
- Autoclave
- ☑ Repeated disinfections (solvents)
- ☑ Decontamination : UV-C and antimicrobial solutions



## DIAGNOSTIC DEVICES PIPETS, TUBES, CONTAINERS

- ☑ Biocompatibility
- ☑ High transparency

#### SINGLE-USE MEDICAL DEVICES

- ☑ Biocompatibility
- ☑ Materials for functional components

#### ELECTRONIC AND CONNECTED MEDICAL DEVICES

- ☑ Biocompatibility

- ☑ Halogen free UL94 V0 ignifugation
- ☑ Radio-frequency protection







#### SURGICAL DEVICES

- ☑ Biocompatibility
- Metal replacement
- Aesthetics
- ✓ Increased autoclave capacity (< 2 500 cycles at 134°)</p>

#### FLEXIBLE AND RIGID MEDICAL PACKAGING

- ☑ Biocompatibility
- ☑ Transparency
- $\ensuremath{\boxtimes}$  Resistance to tearing, piercing and breakability
- $\ \ \ \square$  Impact resistance including cold impact

#### SUSTAINABLE SOLUTIONS

Bio-based and recycled materials in the respect of the biocompatibility



			MEDICAL STERILIZATION					CLIEMICAL	
POLYMIX			MEDICAL CERTIFICATIONS		GAS	IRRADIATION	AUTOCLAVE	CHEMICAL RESISTANCE	TRANSPARENT
			ISO10993	USP6	ETO	GAMMA / E-BEAM / X-RAY	134°C		
	HPP	PP	•	•	000	•••	121°C - 1 cycle	000	•
REPSOL	HPR	РР соро	•	•	000	•••	121°C - 1 cycle	000	•
	HPP-RMD / HPR-RMD Improved irradiation	PP / PP copo	•	•	000	000	121°C - 1 cycle	•••	•
REPTOL	HLD	LDPE	•	•	000	•••	0	000	•
Healthcare 🗵	HHD	HDPE	•	•	000	•••	121°C - 1 cycle	000	•
	HVA	EVA copo	•	•	000	•••	0	000	•
	HH104 MED	PS	0	•	000	•••	0	•00	•
Resirene	6110MED - 6420MED	HIPS	0	•	000	•••	0	•00	0
Resirene	CET®	SMMA	0	•	000	•••	0	•00	•
Įndoramą	RAMAPET® N180 - N1S	PET	•	0	000	000	0	•••	•
KPAC  Engineering Plastics	KEPITAL™ MX	POM	•	•	000	•00	< 50 cycles	•••	0
SUSTAINABL	RILSAN®	PA11	0	0	000	000	< 100 cycles	000	0
ARKEMA	RILSAN® CLEAR	PA11 transparent	0	0	000	•••	< 100 cycles	••0	•
	PEBAX®	PEBA	0	0	000	•••	< 25 cycles	000	0
	LEXAN™ HP	PC	•	•	000	•••	< 10 cycles	•00	•
	LEXAN™ HPS Improved irradiation	PC	•	•	000	000	< 10 cycles	•00	•
	CYCOLAC™ HMG	ABS	•	•	000	•••	0	•00	0
ىسابك	CYCOLOY™ HC	PC/ABS	•		000	•••	0	•00	0
<u>ع</u> طاعند	XYLEX™ HX	PC/PET	•		000	000	0	••0	•
SUSTAINABLE	XENOY™ HX	PC/PBT	•	•	000	000	0	•••	0
	VALOX™ HX	PBT	•	•	000	000	0	•••	0
	LEXAN™ from renewable feedstock Recycled and Bio-based ressources	PC	•	•	000	0	•	•00	0

Yes ○ No ○ On request ○ ○ ○ : limited ○ ○ ○ : good ○ ○ ○ : excellent

POLYMIX	POI	Y	M	X
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OLYMix'		MEDICAL CERTIFICATIONS		STERILIZATION			CHEMICAL	TDANCDADENT	
				GAS IRRADIATION		AUTOCLAVE	RESISTANCE	TRANSPARENT	
		ISO10993	USP6	ETO	GAMMA / E-BEAM / X-RAY	134°C			
	LEXAN™ HPX	РС соро	•	•	000	•••	< 100 cycles	•00	•
	LEXAN™ HPH	РС соро	•	•	000	•••	< 300 cycles	•00	•
ىسانگ	ELCRES™ CRX	РС соро	0	0	000	•••	< 10 cycles	••0	
Specialties	ELCRES™ CRX	PC copo/PBT	0	0	000	000	0	000	0
	ELCRES™ CYCOLOY™ CX2244ME	PC copo/ABS	•	•	•••	•••	0	•••	0
	NORYL™ HN	PPO	•	•	000	000	< 2 500 cycles	000	0
	ULTEM® HU	PEI	•		000	000	< 1 000 cycles	000	•
<b>単位色新村</b>	PARYLS®	PPSU	•	0	000	•••	< 500 cycles	000	•
GHARDA PLASTICS ARCHES DUDGE OF GHARDA CHIMOLIS IMPTS	G-PAEK™ 1200G	PEK	•	•	000	000	< 1500 cycles	•••	0
<b>O</b> (D(())	ISOTHANE® SERIE 3000	TPU ether	•	0	000	•00	0	••0	•
@(iR(())	ISOTHANE® SERIE 5000	TPU ether	0	•	000	•00	0	••0	•
PREMIX	PRE-ELEC®	Conductive compounds	0	•	000	•	•	•	0
CHIMEI	POLYLAC® PA757F	ABS	0	•	000	•••	0	•00	0
	POLYLAC® 704LRP	ABS	•	0	000	•••	0	•00	0
	POLYLAC® PA758	MABS	0	•	000	•••	0	•00	•
	POLYLAC® PA703TRP	MABS	•	0	000	•••	0	•00	•
	KIBITON® PB-5903	SBC	0	•	000	•00	0	••0	

ADDITIONAL RANGE

₽₽₩₩XELENT™

Sustainable Antimicrobial Agent from pine oil



#### Purging compound

for colors and resins change Effectively removes contamination Fast action and non-abrasive Easily removed FDA certified grades

NOTE
ISO 10993 - The ISO 10993, regulated by the International Organization for Standardization (ISO), is a standard series for the biological evaluation of medical devices. The aim of the standard is to evaluate the biological assessment regarding the biocompatibility of the materials with the human body.

○○○: limited

●●○: good ●●●: excellent

On request

Yes \( \cdot\) No

Important parts:
ISO 10939-5:2009 Biological evaluation of medical devices Part 5: Tests for in vitro cytotoxicity
ISO 10939-5:2009 Biological evaluation of medical devices Part 11: Tests for systemic toxicity
DMF - A Drug Master File (DMF) is a confidential, detailed document about active substances contained in the medical product. It is submitted from manufacturers to the U.S. Food and Drug Administration (FDA). A DMF contains the chemistry, manufacturing and controls of a component of a drug product. There is no legal obligation to create a DMF and to submit it to the authorities.
USP - The United States Pharmacopeia (USP) includes standards to guarantee the quality and purity of medicines and health technologies worldwide. It covers tests relating to the biological reactivity of elastomers, plastics and other polymer materials with direct or indirect customer contact. USP Class VI is the most stringent test and accepted in the sector.

The AMP-POLYMIX Group authorises the use of materials for class I and II medical devices. For class III and/or implantable medical devices (short term, long term and permanent), the use of a material must be subject to a prior negotiated agreement between the different parties.

#### DISCLAIMER

Any information given on the chemical and physical characteristics of products, including technical advice on applications whether verbally, in writing or by testing the product, is given to the best of our knowledge. It does not exempt the buyer from carrying out his own investigations and tests in order to ascertain the products' specific suitability for the purpose intended. The buyer is solely responsible for the application, utilization and processing of the products and must observe the laws and government regulations and the consequential rights of any third party. At all times our Conditions of Sale apply. Please contact us to inquire availability per represented countries.

AMP-POLYMIX Group doesn't authorize the use of materials for class III material devices.